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Search result

QUERY	
Search done on	16.3.2010 (16.2H)
Search ID	10590846
Database	Metallic compounds
Composition (Dimension: weight-%: Limit for optional components: 0)	C: 0.85-1.40* SI: 0.05-2.00* MN: 0.05-2.00* B: 0.0001-0.0050* N: 0.0060-0.0200* ZR: 0.0001-0.2000* CR: 0.05-2.00+ MO: 0.01-0.50+ CO: 0.003-2.00+ CU: 0.01-1.00+ NI: 0.01-1.00+ Ti: 0.0050-0.0500+ MG: 0.0005-0.0200+ CA: 0.0005-0.0150+ AL: 0.0100-1.00+ V: 0.005-0.500+ NB: 0.002-0.050+ FE: BALANCE
Sorted according to	Date of publication descending

Compositions

Hits 45

1 · DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (16.2H)		
Field	Content	
Publication	EP2062981 A1	27.05.2009
Priority	JP2007022412	31.01.2007
Application	EP1012200707850344	
Applicant	Nippon Steel Corp	
Inventor	Manabe, Toshiyuki; Yamasaki, Shingo; Nishida, Seiki	
Title	Plated steel wire for PWS excelling in torsion property and process for producing the same	
Info		
IPC	C22C036/00	
Composition nr	1	Composite component -
Composition	[weight-%] C: 0.8-1.1* SI: 0.8-1.3* MN: 0.3-0.8* N: 0.001-0.006* B: 0.0004-0.006* AL: 0.005-0.1+ Ti: 0.005-0.1* CR: 0-0.5* NI: 0-0.5* CO: 0-0.5* V: 0-0.5* CU: 0-0.2* MO: 0-0.2* W: 0-0.2* NB: 0-0.1* ZR: 0-0.05* FE: REST	
Keywords	(english)	(german)
	BAINITE	BAINIT
	COMPOSITE-MATERIAL	VERBUNDW
	CORROSION-RESISTING	KORROSIONSBEST
	HEAT-TREATMENT	WAERMEBEHANDLUNG
	PERLITE	PERLIT
	PRECIPITATION-HARDENING	AUSSCHEIDUNGSH
	SURFACE	OBERFLAEGE
	TENSILE-STRENGTH	ZUGFEST
	USE	VERWENDUNG
	WIRE	DRAHT
	ZEMENTITE	ZEMENTIT

3 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (10.2H)

Field	Content
Publication	EP2058411 A1
Priority	WOJP2006322784
Application	EP0911200606823432
Applicant	Nippon Steel Corp
Inventor	Hashimura, Masayuki; Hagiwara, Hiroshi; Kisu, Takayuki und Miterfnder
Title	Steel for high-strength spring and heat-treated steel wire for high-strength spring
Info	
IPC	C22C038/00
Composition nr	1
Composition	[weight-%] C 0,5-0,9 * Si 1-3 * Mn 0,1-1,5 * Cr 1-2,5 * V 0,15-1 * Al 0-0,005 * N {0)-0,007 * Nb 0,001-0,01 + Ti 0,001-0,005 + W 0,05-0,5 + Mo 0,05-0,5 + Ni 0,05-3 + Cu 0,05-0,5 + Co 0,055 + B 0,0005-0,006 * Ca 0,0002-0,01 + HF 0,0002-0,01 + Te 0,0002-0,01 + Sb 0,0002-0,01 + Mg 0,0001-0,0005 + Zr 0,0001-0,0005 * Fe REST
Keywords (english)	(german)
FATIGUE-RESISTING	SCHWINGFEST
HARD	HART
HEAT-TREATMENT	WÄRMEBEHANDLUNG
MARTENSITE	MARTENSIT
PRECIPITATION-HARDENING	AUSSCHEIDUNGSH
SPRINGS	FEDERN
TENSILE-STRENGTH	ZUGFEST
USE	VERWENDUNG
WIRE	DRAHT

3 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (10.2H)

Field	Content
Publication	EP2003222 A1
Priority	JP2006099198
Application	EP2903200707741060
Applicant	Nippon Steel Corp
Inventor	Hashimura, Masayuki; Ochi, Tatsuro; Kisu, Takayuki und Miterfnder
Title	Heat-treatment steel for high-strength spring
Info	
IPC	C22C038/00
Composition nr	1
Composition	[weight-%] C 0,45-0,9 * Si 1,7-3 * Mn 0,1-2 * N 0-0,007 * Fe REST * Cr 0,2-2,5 * V 0-0,1 * Nb 0-0,05 * Ti 0-0,05 * W 0-0,5 * Mo 0-0,5 * Ta 0-0,5 * Ni 0-3 * Cu 0-0,5 * Co 0-3 * B 0-0,006 * Te 0-0,01 * Sb 0-0,01 * Mg 0-0,0005 * Zr 0-0,0005 * Ca 0-0,01 * HF 0-0,01 * Al 0-0,005 * S 0-0,011 * P 0-0,011
Keywords (english)	(german)
HEAT-TREATMENT	WÄRMEBEHANDLUNG
SPRINGS	FEDERN
TENSILE-STRENGTH	ZUGFEST
TOUGH	ZÄH

3 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (10.2H)

Field	Content
Publication	EP2003223 A1
Priority	JP2006099198
Application	EP2903200707741061

Applicant	Nippon Steel Corp	
Inventor	Hashimura, Masayuki, Ochi, Tatsuro, Kisu, Takayuki und Mitterlinder	
Title	Heat-treatment steel for high-strength spring	
Info		
IPC	C22C038/00	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,45-0,9 * Si 1-3 * Mn 0,1-2 * N 0-0,007 * Fe REST * Cr 0,5-2,5 + HF 0,0002-0,01 + Nb 0,001-0,05 + Ti 0,001-0,05 + W 0,05-0,5 + Ta 0,001-0,5 + Cu 0,05-0,5 + Co 0,05-3 + B 0,0005-0,006 + Te 0,0002-0,01 + Sb 0,0002-0,01 + Mg 0,0001-0,0005 + Mo 0,05-0,5 + Ni 0,05-3 + Zr 0,0001-0,0005 + Ca 0,0002-0,01 * Al 0-0,005 * V 0-0,1	
Keywords	(english)	(german)
HARD		HART
HEAT-TREATMENT		WÄRMEBEHANDLUNG
SPRINGS		FEDERN
TENSILE-STRENGTH		ZUGFEST
USE		VERWENDUNG

S - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (18.2H)

Field	Content
Publication	US20050257860 A1
Priority	JP2004153132
Application	US2305200513443105
Applicant	Takayama, Takemori
Inventor	Takayama, Takemori
Title	Rolling member and producing method thereof
Info	
IPC	C21D001/10
Composition nr.	1
Composition	[weight-%] C 0,4-1,5 * Cr 0,3-2 * Mn : 0-2 * Si + Al 0-1,5 * Mo : 0-0,7 * W 0-1,4 * V 0-2 * Ni 0-3 * B 0-0,01 * Ti + Nb + Zr 0-1 * S 0-1 * P + O + N 0-0,05 * Fe, REST
Keywords	(english)
BAINITE	BAINIT
HARD	HART
HEAT-TREATMENT	WÄRMEBEHANDLUNG
MARTENSITE	MARTENSIT
TENSILE-STRENGTH	ZUGFEST
TOUGH	ZÄH
USE	VERWENDUNG
WEAR TEAR	VERSCHLEISS
ZEMENTITE	ZEMENTIT

S - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (18.2H)

Field	Content
Publication	EP1577410 A1
Priority	JP2002261161
Application	EP2409200303748555
Applicant	Kabushiki Kaisha Kobe Seiko Sho
Inventor	Nagao, Mamoru, Kuroda, Takeshi, Mimamida, Takaaki
Title	Hot milled wire rod excelling in wire drawability and enabling avoiding heat treatment before wire drawing
Info	

IPC	C22C038/00	
Composition nr	1	Composite component -
Composition	[weight-%] C 0,6-1 * Si 0,1-1,5 * Mn 0,3-1 * P 0,0-0,02 * S 0,0-0,02 * Cr 0,0-0,3 * Ni 0,0-0,3 * Nb + V + Ti + Hf + Zr 0,0-0,1 * N 0,0,1 * Al 0,0-0,05 * Mg 0,01 * Mg O + Al O 0,0-0,011 * B 0,0-0,005 * Fe REST	
Keywords (english)		(german)
HEAT-TREATMENT		WÄRMEBEHANDLUNG
PERLITE		PERLIT
PLASTIC		PLASTISCH
PRODUCTION		HERSTELLUNG
TENSILE-STRENGTH		ZUGFEST
WIRE		DRAHT

7 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (10,2H)

Field	Content	
Publication	WO2005085481 A1	15.09.2005
Priority	JP2004065676	09.03.2004
Application	WO09032005/P200504582	
Applicant	Nippon Steel Corp	
Inventor	Ueda, Masaharu; Fujita, Kazuo; Matsushita, Koichiro und Miteri,	
Title	A method for producing high-carbon steel rails excellent in wear resistance and ductility	
Info	V+10 Nb + 5 N 0,04-0,3	
IPC	C21D008/00	
Composition nr	1	Composite component -
Composition	[weight-%] C 0,851-1,4 * Si 0,05-2 * Mn 0,05-2 * Cr 0,0-2 * Mo 0,0-0,5 * B 0,0-0,005 * Co 0,0-2 * Cu 0,0-1 * Ni 0,0-1 * Ti 0,0-0,05 * Mg 0,0-0,02 * Ca 0,0-0,015 * Al 0,0-1 * Zr 0,0-0,2 * N 0,0-0,02 * V 0,0-0,5 * Nb 0,0-0,05 * Fe REST	
Keywords (english)		(german)
HARD		HART
HEAT-TREATMENT		WÄRMEBEHANDLUNG
PERLITE		PERLIT
Precipitation-Hardening		AUSSCHEIDUNGSH
TOUGH		ZÄH
USE		VERWENDUNG
WEAR/TEAR		VERSCHLEISS
WELDABLE		SCHWEISSBAR

8 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (15,2H)

Field	Content	
Publication	EP1493831 A1	05.01.2005
Priority	JP2002104457	05.04.2002
Application	EP0404200303745927	
Applicant	Nippon Steel Corp	
Inventor	Ueda, Masaharu; Matsushita, Koichiro; Fujita, Kazuo und Miteri	
Title	Pearlite based rail excellent in wear resistance and ductility and method for production thereof	
Info		
IPC	C22C038/00	
Composition nr	1	Composite component -
Composition	[weight-%] C 0,65-1,4 * Si 0,05-2 * Mn 0,05-2 * Cr 0,0-2 * Mo 0,0-0,5 * V 0,0-0,5 * Nb 0,0-0,05 * B 0,0-0,005 * Co 0,0-2 * Cu 0,0-1 * Ni 0,0-1 * N 0,0-0,02 * Ti 0,0-0,05 * Mg 0,0-0,02 * Ca 0,0-0,015 * Al 0,0-1 * Zr 0,0-0,2 * Fe REST	
Keywords (english)		(german)

HARD	HART
HEAT-TREATMENT	WÄRMEBEHANDLUNG
PERLITE	PERLIT
PLASTIC	PLASTISCH
SURFACE	ÖBERFLÄCHE
TOUGH	ZAH
USE	VERWENDUNG
WEAR TEAR	VERSCHLEISS
ZEMENTITE	ZEMENTIT

9 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (16:2H)

Field	Content
Publication	WO2003085149 A1
Priority	JP2002194457
Application	WO04042003/P200304364
Applicant	Nippon Steel Corp
Inventor	Leda, Masaharu; Matsushita, Koichi; Fujita, Kazuo und Mitarbeiter
Title	Pearlite based rail excellent in wear resistance and ductility and method for production thereof
Info	
IPC	C22C038/00
Composition nr.	1 Composite component -
Composition	[weight-%] C : 0,65-1,4 * Si : 0,05-2 * Mn : 0,05-2 * Cr : 0,05-2 * Mo : 0-0,5 * V : 0-0,5 + Nb : 0-0,05 + B : 0-0,005 + Co : 0-2 + Cu : 0-1 + Ni : 0-1 + N : 0-0,02 * Ti : 0-0,05 + Mg : 0-0,02 + Ca : 0-0,015 + Al : 0-1 + Zr : 0-0,2 * Fe REST
Keywords (english)	(german)
HEAT-TREATMENT	WÄRMEBEHANDLUNG
PERLITE	PERLIT
PLASTIC	PLASTISCH
PRODUCTION	HERSTELLUNG
WEAR TEAR	VERSCHLEISS

10 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (18:2H)

Field	Content
Publication	JP2001303189 AA
Priority	JP2000041736
Application	JP160220012001042357
Applicant	KOBE STEEL LTD.
Inventor	MOMOZAKI, HIROSHI; SHIKAIKO, MASATO; HASEGAWA, TOYOFUMI
Title	WIRE-SHAPED OR BAR-SHAPED STEEL WHOSE RISE IN DEFORMATION RESISTANCE IN HEAT GENERATING REGION BY WORKING AS WELL AS AT ROOM TEMPERATURE IS SUPPRESSED, AND MACHINE PARTS
Info	
IPC	C22C03800
Composition nr.	1 Composite component -
Composition	[weight-%] B : 0-0,0055 * Zr : 0-0,035 * N : 0,0005-0,007 * C + Si + Mn : 0-2,22 * Fe REST
Keywords (english)	(german)
FERRITE	FERRIT
PLASTIC	PLASTISCH
PRODUCTION	HERSTELLUNG
WIRE	DRAHT

1.1 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (18:2H)

Field	Content
Publication	JP02024433 A
Priority	JP5661
Application	JP1201199911-5661
Applicant	KOBE STEEL LTD
Inventor	MOMOZAKI, HIROSHI/ HASEGAWA, TOYOFUMI
Title	STEEL EXCELLENT IN COLD WORKABILITY AND MACHINE PARTS
Info	
IPC	C22C03800
Composition nr.	1
Composition	[weight-%] C 0.002-0.85 * AL (0)-0,1 * N (0)-0,015 * FE REST * CR 0-2 + Ti 0-0,2 + B 0-0,01 + NB 0-0,1 + V 0-0,2 + ZR 0-0,1 + MO 0-0,3 * SI = MN 0-2,22
Keywords	(english) PLASTIC
	(german) PLASTISCH

1.2 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (18:2H)

Field	Content
Publication	EP1002603 A
Priority	JP26987
Application	EP0911199999308926
Applicant	TEIKOKU PISTON RING CO LTD
Inventor	OGUCHI, MASAHIRO/ HANADA, FUSANOBU / YOSIZAWA, KATUYUKI UND MITERFINDER
Title	HYDROGEN ABSORBING ALLOY POWDER AND METHOD FOR ITS PRODUCTION
Info	DAS LEGIERUNGSPULVER ENTHALTET WENIGSTENS 10 GEW% VON WENIGSTENS EINEM ELEMENT
IPC	B22F00908
Composition nr.	1
Composition	[weight-%] REM + Ti + ZR + V + MG + CA + Y + HF + NB + TA + NI + FE + MN + CU + CO + CR + AL + B + C + Si + P + S + N + PD + PT 100
Keywords	(english) ACCUMULATOR METAL-POWDER PRODUCTION THERMAL
	(german) AKKU METALLPULVER HERSTELLUNG THERMISCH

1.3 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (18:2H)

Field	Content
Publication	JP0119905 A
Priority	JP227872
Application	JP2409199810-269822
Applicant	SUMITMO METAL IND LTD
Inventor	OFUJI, YOSHIHIRO/ HAMADA, TAKANARI
Title	STEEL WIRE ROD EXCELLENT IN WIRE DRAWABILITY
Info	
IPC	C22C03800
Composition nr.	1
Composition	[weight-%] C 0.7-1,1 * Si 0.1-1.5 * Mn 0.2-1 * Cr 0-1 * Al 0-0,05 * N 0-0,006 * Cu 0-1 * Ni 0-2 * Mo 0-0,5 * Co 0-4 * V 0-0,4 * Nb 0-0,1 * Ti 0-0,1 * Zr 0-0,1 * B 0-0,005 * P 0-0,05 * S 0-0,05 * REM 0-0,1 * Ca 0-0,01 * Mg 0-0,01 * FE REST

Keywords	(english)	(german)
PLASTIC		PLASTISCH
WIRE		DRAHT

14 - DEUTSCHES PATENT UND MARKENAMT DPMA - 19.3.2010 (16:2H)

Field	Content
Publication	DE9723302 T2
Priority	JP564150/96
Application	DE0312199769723302
Applicant	Komatsu Ltd
Inventor	Takayama, Takemori, Hamasaki, Naoyi
Title	Stahlteile mit guter Widerstandsfähigkeit gegen Oberflächendruck und Verfahren zur Herstellung
Info	
IPC	C22C038/00
Composition nr.	1
Composition	[weight-%] C 0,1-1,2 * AL 0,3-3 * CR 0,5-5 * V 0,2-2 * Si 0-1 * Mn 0-1,5 * Ni 0-4 * Mo 0-1 * Nb + Ti + Zr 0-0,1 * N + P + S 0-0,33 * B + Ca + Pb : 0-1,11 * Fe REST
Keywords	(english)
AUSTENITE	AUSTENIT
BEARING	LAGER
FATIGUE-RESISTING	SCHWINGFEST
FINE-GRAINED	FEINKÖRNING
HARD	HART
HEAT-TREATMENT	WÄRMEBEHANDLUNG
MARTENSITE	MÄRTENSIT
PRODUCTION	HERSTELLUNG
SURFACE	ÖBERFLÄCHE
USE	VERWENDUNG
WEAR/TEAR	VERSCHLEISS
ZEMENTITE	ZEMENTIT

15 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 19.3.2010 (16:2H)

Field	Content
Publication	US5648044 C
Priority	JP191398
Application	US2205199546488
Applicant	KAWASAKI STEEL CORPORATION
Inventor	HOSHINO, TOSHIYUKI / IWAMOTO, TAKASHI / MATSUZAKI, AKIHIRO UND MITERFINDER
Title	GRAPHITE STEEL FOR MACHINE STRUCTURAL USE EXHIBITING EXCELLENT FREE CUTTING CHARACTERISTIC, COLD FORGING CHARACTERISTIC AND POST-HARDENING/TEMPERING FATIGUE RESISTANCE
Info	
IPC	C22C038/02
Composition nr.	1
Composition	[weight-%] C + GRAPHIT 0,1-1,5 * Si 0,5-2 * Mn 0,1-2 * B 0,0003-0,015 * AL 0,005-0,1 * O 0-0,003 * P 0-0,02 * S 0-0,035 * N 0,0015-0,015 * Fe REST * SELTERD 0-0,2 + ZR 0-0,2 + Ti 0-0,05 + V 0-0,5 + Nb 0-0,05 + Ni 0-3 + Cu 0-3 + Co 0-3 + Mo 0-1
Keywords	(english)
FATIGUE-RESISTING	SCHWINGFEST
FINE-GRAINED	FEINKÖRNING
HARD	HART

HEAT-TREATMENT	WÄRMEBEHANDLUNG
MACHINABLE	ZERSPANBAR
PLASTIC	PLASTISCH
PRECIPITATION-HARDENING	AUSSCHEIDUNGSH
TENSILE-STRENGTH	ZUGFEST

16 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16;ZH)

Field	Content
Publication	JP08100239 A
Priority	JP231779
Application	JP0809199507231779
Applicant	DAIDO STEEL CO., LTD.
Inventor	MIZUNO, HIROSHI/ ITO, KAZUO/ SUDO, KOICHI/ YAMAUCHI, NAOYUKI
Title	ALLOY TOOL STEEL
Info	
IPC	C22C03800
Composition nr	1
Composition	[weight-%] C 0,35-1,5 * Si 0,1-2 * Mn 0,1-1,5 * Cr 2-10 + Mo * W 1,5-30 + V 0,5-5 + SELTERD 0,001-0,6 * Co 1-20 + Ni 0,01-2 + Cu 0,25-1 + B 0,001-0,05 * Fe, REST * S: 0-0,002 * O: 0-0,003 * N 0-0,02 * Al 0-0,02 * P: 0-0,02 * Nb + Ta + Zr + Hf + Ti + Sc + Y 0-0,33
Keywords	(english) (german)
FATIGUE-RESISTING	SCHWINGFEST
HIGH-TEMPER-STRENGTH	WARMFEST
TOOL	WERKZEUG
TOUGH	ZÄH

17 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16;ZH)

Field	Content
Publication	JP08020841 A
Priority	JP153875
Application	JP0507199406153879
Applicant	KAWASAKI STEEL CORP.
Inventor	HOSHINO, TOSHIYUKI/ IWAMOTO, TAKASHI/ YASUMOTO, SATOSHI UND MITTERFINDER
Title	ROLLING MEMBER
Info	
IPC	C22C03800
Composition nr.	1
Composition	[weight-%] C + GRAPHIT 0,1-1,5 * Si 0,5-2 * Mn 0,1-2,5 * N 0,0015-0,015 * O 0-0,002 * Fe REST * Al 0,01-0,5 + B 0,0003-0,015 + Ti 0,005-0,05 + SELTERD 0,0005-0,02 + Zr 0,005-0,2
Keywords	(english) (german)
AUSTENITE	AUSTENIT
FERRITE	FERRIT
HARD	HART
MACHINABLE	ZERSPANBAR
SURFACE	OBERFLÄCHE

18 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16;ZH)

Field	Content
Publication	JP07266234 A
	31.10.1995

Priority	JP60080820	20.04.1994
Application	JP2004199406080820	
Applicant	KAWASAKI STEEL CORP	
Inventor	YASUMOTO, SATOSHI/ HOSHINO, TOSHIYUKI/ MATSUZAKI, AKIHIRO UND MITERFINDER	
Title	BEARING MEMBER EXCELLENT IN CHARACTERISTIC OF RETARDING MICROSTRUCTURAL CHANGE DUE TO REPEATED STRESS LOAD	
Info	RESTAUSTENIT 10-35 VOL.-%	
IPC	C22C03800	
Composition nr	2	Composite component -
Composition	[weight-%] C 0,5-1,5 * NB 0,05-1 * O 0-0,002 * Si 0-2,5 * MN 0-2 * MO 0-0,5 * Cu 0-1 * Ni 0-3 * B 0-0,1 * Al 0-0,07 * N 0,05 * ZR 0-0,5 * W 0-1 * TA 0-0,5 * HF 0-0,5 * CO 0-1,5 * FE REST	
Keywords (english)		(german)
AUSTENITE		AUSTENIT
BEARING		LAGER
USE		VERWENDUNG

13 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 19.3.2010 (10.2H)

Field	Content	
Publication	US6458703 C	
Priority	JP287384	
Application	US24081993110925	
Applicant	NIPPON KOSHUHA STEEL CO., LTD.	
Inventor	NAKAI, NORIHIKO	
Title	TOOL STEEL PRODUCTION METHOD	
Info		
IPC	C21D00118	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,15-1,5 * Si 0-2,5 * MN 0-1 * CR 0,4-21 * MO 0-5 * W 0-18 * V 0-3 * CO 0-21 * Ni 0-18 * NB 0-1,25 * ZR 0-2 * Ti 0-2,5 * TA 0-1,25 * B 0-0,01 * N 0-0,5 * AL 0-1,2 * P 0-0,04 * S 0-0,04 * FE REST	
Keywords (english)		(german)
HARD		HART
HEAT-TREATMENT		WÄRMEBEHANDLUNG
MAGNETIZABLE		MAGNETISIERBAR
TENSILE-STRENGTH		ZUGEST
TOOL		WERKZEUG
TOUGH		ZÄH

2G - DEUTSCHES PATENT- UND MARKENAMT DPMA - 19.3.2010 (10.2H)

Field	Content	
Publication	JP07188846 A	
Priority	JP5337874	
Application	JP2812199305337874	
Applicant	KAWASAKI STEEL CORP	
Inventor	IWAMOTO, TAKASHI/ HOSHINO, TOSHIYUKI/ MATSUZAKI, AKIHIRO UND MITERFINDER	
Title	MACHINING STRUCTURAL CARBON STEEL EXCELLENT IN MACHINABILITY AND COLD FORGEABILITY	
Info		
IPC	C22C03800	
Composition nr.	1	Composite component -
Composition	[weight-%] C + GRAPHIT 0,1-1,5 * Si 0-0,5 * MN 0,1-2 * ZR 0,005-0,2 * N 0,0015-0,015 * O 0-0,003 * NI + CO + CU 0,1-3 * B + AL + Ti + SELTERD 0-0,33 * CR + MO + V + NB 0-0,33 * Pb + TE + P + CA + BI + SE + S 0-0,33 * FE REST	

Keywords	(english)	(german)
FERRITE		FERRIT
MACHINABLE		ZERSPANBAR
USE		VERWENDUNG

21 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (18-2R)

Field	Content	
Publication	EP637656 A	
Priority	JP191398	
Application	EP020819949112047 9	
Applicant	KAWASAKI STEEL CORP	
Inventor	HOSHINO, TOSHIYUKI; IWAMOTO, TAKASHI; MATSUZAKI, AKIHIRO; AMANO, KENITI	
Title	METHOD OF MANUFACTURING STRUCTURAL STEEL WITH GOOD FREE-CUTTING PROPERTIES AND GOOD COLD FORGING CHARACTERISTICS	
Info		
IPC	C22C03/802	
Composition nr.	1	Composite component -
Composition	[weight-%] C + GRAPHIT < 0.1-1.5 * Si < 0.5-2 * Mn 0.1-2 * B 0.0003-0.015 * Al 0.005-0.1 * O 0-0.003 * P 0-0.02 * S 0-0.035 * N 0.0015-0.015 * Fe REST * SELTERFD 0-0.2 + ZR 0-0.2 + Ti 0-0.05 + V 0-0.5 + Nb 0-0.05 + Ni 0-3 + Cu 0-3 + Co 0-3 + Mo 0-1	
Keywords	(english)	(german)
FATIGUE-RESISTING		SCHWINGFEST
FINE-GRAINED		FEINKÖRNING
HARD		HART
HEAT-TREATMENT		WÄRMEBEHANDLUNG
MACHINABLE		ZERSPANBAR
PLASTIC		PLASTISCH
TENSILE-STRENGTH		ZUGFEST
USE		VERWENDUNG

22 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (18-2R)

Field	Content	
Publication	JP07093390 A	
Priority	JP594433	
Application	JP0312199305304085	
Applicant	KAWASAKI STEEL CORP	
Inventor	TAKASHI, IWAMOTO; TOSHIYUKI, HOSHINO; AKIHIRO, MATSUZAKI UND MITTERFINDER	
Title	STEEL FOR MACHINE STRUCTURE EXCELLENT IN MACHINABILITY AND COLD FORGEABILITY	
Info	TO OBTAIN THE STEEL EXCELLENT IN MACHINABILITY AND COLD FORGEABILITY BECAUSE OF THE NEEDLESSNESS OF HARDENING AS PREHEATING, CAPABILITY OF GRAPHITIZATION BY AN EXTREMELY SHORT TIME HEAT TREATMENT AND THE EXTREME REFINEMENT OF THE GRAPHITE GRAIN DIAMETER	
IPC	C22C03/800	
Composition nr.	1	Composite component -
Composition	[weight-%] C + GRAPHIT < 0.1-1.5 * Si < 0.5-2 * Mn 0.1-2 * ZR 0.005-0.2 * N 0.0015-0.015 * O 0-0.003 * B 0.0003-0.015 + Al 0.01-0.5 + Ti 0.005-0.05 + SELTERFD 0.0005-0.2 + V 0.05-0.5 + Nb 0.005-0.05 + Ni 0.1-3 + Cu 0.1-3 + Fe REST	
Keywords	(english)	(german)
FERRITE		FERRIT
HEAT-TREATMENT		WÄRMEBEHANDLUNG
MACHINABLE		ZERSPANBAR
PLASTIC		PLASTISCH

23 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (18-2H)

Field	Content
Publication	JP03064429 A
Priority	JP198173
Application	JP3107198964-198173
Applicant	DAIDO STEEL CO., LTD.
Inventor	HANI YUDA, TOMONORI
Title	TOOL STEEL EXCELLENT IN MACHINABILITY
Info	TO OBTAIN A TOOL STEEL EXCELLENT IN MACHINABILITY BY INCORPORATING SPECIFIC AMOUNTS OF B AND N TO VARIOUS CARBON TOOL STEELS ALSO CONTROLLING THE TOTAL CONTENT OF Ti, ZR, AND REMAND O2 CONTENT <= SPECIFIC VALUES, RESPECTIVELY
IPC	C22C03800
Composition nr.	1
Composition	[weight-%] C : 0.25-1.2 * Si : 0.1-1.5 * Mn : 0.1-1.5 * B : 0.004-0.02 * N : 0.005-0.02 * Ti : Zr : SELTERD : 0-0.01 * O : 0-0.002 * Fe : REST * Cr + W + Mo + Ni + V + Co : 0-15
Keywords (english)	(german)
MACHINEABLE	ZERSPANBAR
TOOL	WERKZEUG

2.4 - DEUTSCHE PATENT- UND MARKENAMT DPMA - 16.3.2010 (10.2H)

Field	Content
Publication	JP03056641 A
Priority	JP191520
Application	JP2607198964-191520
Applicant	DAIDO STEEL CO., LTD.
Inventor	HANI YUDA, TOMONORI
Title	BEARING STEEL HAVING SUPERIOR MACHINABILITY
Info	TO OBTAIN A BEARING STEEL HAVING SUPERIOR MACHINABILITY AND A LONG ROLLING SERVICE LIFE BY SPECIFYING A COMPSN. CONSISTING OF C, Si, Mn, Cr, B, N, O, Ti, Zr, Rem and Fe
IPC	C22C03800
Composition nr.	1
Composition	[weight-%] C : 0.7-1.5 * Si : 0.01-1.5 * Mn : 0.1-1.5 * Cr : 0.6-2 * B : 0.004-0.02 * N : 0.005-0.02 * O : 0-0.002 * Ti : Zr : SELTERD : 0-0.01 * Fe : REST * Mo : 0-0.5 + Ni : 0-2
Keywords (english)	(german)
BEARING	LAGER
MACHINEABLE	ZERSPANBAR

2.5 - DEUTSCHE PATENT- UND MARKENAMT DPMA - 16.3.2010 (10.2H)

Field	Content
Publication	DE3934037 C
Priority	DE3934037
Application	DE12101989P93934037 6
Applicant	THYSSEN STAHL AG
Inventor	HOLLENBERG, LUTZ / LANG, CESTMIR / MUESCHENBORN, WOLFGANG
Title	VERFAHREN ZUR VERBESSERUNG DER KALTUMFORMBARKEIT VERGUETBARER STAELLE
Info	
IPC	C21D00132
Composition nr.	1
Composition	[weight-%] C + GRAPHIT : 0.32-1.3 * Mn : 0.05-0.4 * Si : 0.41-1.5 * Al : 0.02-0.15 * Cr : 0-0.05 * S : 0-0.05 * P : 0-0.03 * N : 0-0.52 * Ni : 0.1 + Mo : 0-0.5 + V : 0-0.1 + Ti : 0-0.04 + Zr : 0-0.15 + B : 0-0.01 * Fe : REST
Keywords (english)	(german)

HEAT-TREATMENT	WÄRMEBEHANDLUNG
PLASTIC	PLASTISCH
WIRE	DRAHT

26. DEUTSCHES PATENT- UND MARKENAMT DPMA - 10.3.2010 (18-2H)

Field	Content	
Publication	DE3721641 C	
Priority	DE5721641	
Application	DE01071987P3721641	
Applicant	THYSSEN STAHL AG	
Inventor	LANG, CESTMIR; MEYER, LUTZ	
Title	VERFAHREN ZUR HERSTELLUNG VON WARMBAND	
Info		
IPC	C21D00602	
Composition nr	1	Composite component -
Composition	[weight-%] C : 0.32-0.9 " MN : 0.2-1.5 " SI : 0.2 " P : 0.05 " S : 0.05 " N : 0.02 " AL : 0-0.15 " CR : 0-3.5 " NI : 0-3.5 " MO : 0-0.5 " V : 0-0.2 " Ti : 0-0.03 " ZR : 0-0.15 " TE : 0-0.005 " B : 0-0.01 " FE, REST	
Keywords (english)	(german)	
HARD	HART	
HEAT-TREATMENT	WÄRMEBEHANDLUNG	
PRODUCTION	HERSTELLUNG	
TENSILE-STRENGTH	ZUGFEST	
USE	VERWENDUNG	

27. DEUTSCHES PATENT- UND MARKENAMT DPMA - 10.3.2010 (18-2H)

Field	Content	
Publication	WO8803573 A	
Priority	US927014	
Application	WO19101987US67/02681	
Applicant	MARTIN MARIETTA CORP	
Inventor	MOSHLER, WILLIAM; BRUBACHER, JOHN; CHRISTODOULOU, LEONTIOS UND MITERFINDER	
Title	ISOTHERMAL PROCESS FOR FORMING POROUS METAL-SECOND PHASE COMPOSITES AND POROUS PRODUCT THEREOF	
Info		
IPC	C22C00105	
Composition nr	1	Composite component b
Composition	Composite material [volume-%]: MATRIX: 10-30 " EINLAGERUNG: 70-90 Component a [weight-%]: AL + NI + Ti + Cu + V + Cr + Mn + Co + Fe + Si + Mo + Be + Ag + Au + W + Sb + Bi + Pt + Mg + Pb + Zn + Sn + Nb + Ta + Hf + Zr: 100 Component b [weight-%]: Ti B + Zr B + Zr Si + Zr C + Ti C + Ti N + Al + Ti + Si + B + C + S + Ta + Th + Y + Co + Ni + Mo + W + V + Zr + Nb + Hf + Mg + Sc + La + Cr + O + N + Li + Se + Fe + Mn + Zn + Sn + Cu + Ag + Au + Pt + SELTEFD: 100	
Keywords (english)	(german)	
COMPOSITE-MATERIAL	VERBUND-W	
DISPERSION-HARDENING	DISPERSIONSH	
FINE-GRAINED	FEINKORNING	
HEAT-TREATMENT	WÄRMEBEHANDLUNG	
HIGH-TEMPER-STRENGTH	WÄRMFEST	
POROUS	PORÖS	
PRODUCTION	HERSTELLUNG	

28. DEUTSCHES PATENT- UND MARKENAMT DPMA - 10.3.2010 (18-2H)

Field	Content
Publication	WO8803574 A
Priority	US927031
Application	WO19101987US87/02680
Applicant	MARTIN MARIETTA CORP
Inventor	NAGLE, DENNIS/ BRUPBACHER, JOHN/ CHRISTODOULOU, LEONTIOS
Title	PROCESS FOR PRODUCING METAL-SECOND PHASE COMPOSITES AND PRODUCT
Info	INTERNATIONAL APPLICATION NUMBER PCT/US87/ 02680
IPC	C22C03200
Composition nr	1
Composition	Composite material [%]: MATUX * EINLAGERUNG Component a [weight-%]: AL + NI + Ti + CU + V + CR + MN + CO + FE + SI + MO + BE + AG + AU + PT + NB + TA + HF + ZR + MG + PB + ZN + SN + W + SB + BI : 100 Component b [weight-%]: AL + Ti + Si + B + C + S + TA + TH + Y + CO + NI + MO + W + V + ZR + NB + HF + MG + SC + LA + CR + O + N + Li + BE + FE = MN + ZN + SN + CU + AG + AU + PT + SELTERD + Ti B + ZR B + Ti C + ZR C + ZR S + Ti N : 100
Keywords	(english) (german)
	COMPOSITE-MATERIAL VERBUNDW
	DISPERSION-HARDENING DISPERSIONSH
	FINE-GRAINED FEINKÖRNING
	HIGH-TEMPER-STRENGTH WARMFEST
	PRODUCTION HERSTELLUNG

DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (18:2H)	
Field	Content
Publication	EP253497 A
Priority	US73890
Application	EP106168787305161 7
Applicant	MARTIN MARIETTA CORP
Inventor	NAGLE, DENNIS/ BRUPBACHER, JOHN/ CHRISTODOULOU, LEONTIOS
Title	COMPOSITES HAVING AN INTERMETALLIC CONTAINING MATRIX
Info	
IPC	C22C00110
Composition nr	1
Composition	Composite material [%]: MATRIX * EINLAGERUNG Component a [weight-%]: Ti + TA + NB + NI + CO + CU + FE + PT + AU + AG + PB + ZN + MO + SELTERD + Y + SC + IA + HF + SN + W + Li + MG + BE + CR + V + ZR + MN + AL : 100 Component b [weight-%]: Ti + B + Si + C + S + MO + W + V + AL + ZR + NB + CO + N + O + Ni + FE + MG + BE + MN + ZN + Li + Y + SELTERD + HF + TA + CR : 100
Keywords	(english) (german)
	COMPOSITE-MATERIAL VERBUNDW
	DISPERSION-HARDENING DISPERSIONSH
	PLASTIC PLASTISCH
	PRODUCTION HERSTELLUNG

DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (18:2H)	
Field	Content
Publication	JP61213348 A
Priority	JP53095
Application	JP1603198560-53095
Applicant	DAIDO STEEL CO., LTD
Inventor	SUDO, KOICHI

Title	ALLOY TOOL STEEL	
Info	TO OBTAIN AN ALLOY TOOL STEEL HAVING SUPERIOR STRENGTH, TOUGHNESS, HEAT CHECK RESISTANCE AND A LONG CUTTING LIFE BY SPECIFYING A COMPOSITION CONSISTING OF C, SI, MN, CR, MO, W, VAND FE	
IPC	C22C03824	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,2-2,5 * SI 0,0-1 * MN 0,1-1,5 * CR 2-20 * MO * W 0,5-30 + V 0,01-5 * SELTERD + NB + TA + ZR + HF + Ti + Sc + Cr + Co + Ni + Cu + B + Mg + Ca + Pb + Bi + Te + Ge 0-2,22 * N 0-0,02 * S 6-0,005 * O 0-0,003 * AL 0-0,02 * P 0-0,02 * FE REST	
Keywords (english)	(german)	
CUTTING-EDGE-HOLDING-PR	SCHNEIDHALTIG	
HEAT-RESISTANT	HITZEBEST	
TENSILE-STRENGTH	ZUGFEST	
TOOL	WERKZEUG	
TOUGH	ZÄH	

31 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16,2H)

Field	Content	
Publication	US4296621 C	10 11 1981
Priority	US54528	03 07 1979
Application	US0307197954528	
Applicant	HENRIK G/FLO	
Inventor	G/FLO, HENRIK	
Title	HIGH MECHANICAL STRENGTH REINFORCEMENT STEEL	
Info		
IPC	C22C03822	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,04-1,2 * MN 1-3,5 * SI 0,1-2,8 * MO 0,01-1 * CU 0,05-3 * NI 0,01-3 * ZR + CE + SELTERD 0,001-0,15 * NB + V 0,01-0,3 * N 0,009-0,035 * CA 0,0005-0,025 * AL 0,02-0,15 * B + BE 0,001-0,05 * FE REST	
Keywords (english)	(german)	
CORROSION-RESISTING	KORROSIONSBEST	
STRESS-CORROSION-RESIST	SPANNUNGSKORROSIONSBEST	
TENSILE-STRENGTH	ZUGFEST	
USE	VERWENDUNG	
WELDABLE	SCHWEISSBAR	

32 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16,2H)

Field	Content	
Publication	US4279647 C	21.07.1981
Priority	US49867	18 06 1979
Application	US180619794867	
Applicant	HENRIK G/FLO	
Inventor	G/FLO, HENRIK	
Title	CONSTRUCTION STEEL EXHIBITING HIGH FATIGUE STRENGTH	
Info		
IPC	C22C03801600	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,04-1,6 * MN + NI 0,3-3 * SI 0,1-8 * CU 0,6-4 * MO + CO 0-3 * NB + V 0,02-0,4 * B 0,001-0,006 * ZR + BE 0,01-0,4 * AL 0,01-0,2 * N 0,005-0,2 * CA 0,0001-0,005 * CE + SELTERD + PB 0-0,25 * S 0-0,1 * FE REST	
Keywords (english)	(german)	
CORROSION-RESISTING	KORROSIONSBEST	

ELASTIC	ELASTISCH
FATIGUE-RESISTING	SCHWINGFEST
USE	VERWENDUNG
WEAR TEAR	VERSCHLEISS
WELDABLE	SCHWEISSBAR

DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16:2K)

Field	Content
Publication	EP22134 A
Priority	EP79101819
Application	EP0805167979101819
Applicant	HENRIK GIROL
Inventor	GI FLO, HENRIK
Title	ACIER D'ARMATURE A HAUTE RESISTANCE MECANIQUE
Info	
IPC	C22C038/16
Composition nr	1
Composition	[weight-%] C : (0)-1,2 * MN : (0)-3,5 * Si : (0)-2,8 * Mo : (0)-1 * Cu + Ni : (0)-3 * Zr + Ce : (0)-0,15 * Nb + V : 0,01-0,3 * N : 0,008-0,035 * Ca : 0,005-0,025 * Al : 0,02-0,15 * B + Be : 0,001-0,05 * P + S : 0-0,33 * Fe REST
Keywords (english)	(german)
ARMATURE	ARMATUR
CORROSION-RESISTING	KORROSIONSBEST
TENSILE-STRENGTH	ZUGFEST
USE	VERWENDUNG
WELDABLE	SCHWEISSBAR

DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16:2H)

Field	Content
Publication	EP18425 A
Priority	EP79101833
Application	EP0205167979101333
Applicant	HENRIK GI FLO
Inventor	GI FLO, HENRIK
Title	ACIER DE CONSTRUCTION PRESENTANT UNE HAUTE RESISTANCE A LA FATIGUE, PROCEDE DE FABRICATION D'UN TEL ACIER
Info	
IPC	C22C038/16
Composition nr	1
Composition	[weight-%] C : (0)-1,6 * Mn + Ni : 0,3-3 * Si : 0-1,8 * Cu : 0,6-4 * Mo + Co : 0-3 * Nb + V : 0,02-0,4 * B : 0-0,006 * Zr + Be : 0-0,4 * Al : 0,02-0,2 * N : 0,005-0,2 * Ca : 0,0001-1 * Ce + Pb : 0-0,25 * S : 0-0,1 * Fe REST
Keywords (english)	(german)
CORROSION-RESISTING	KORROSIONSBEST
HEAT-TREATMENT	WAERMEBEHANDLUNG
USE	VERWENDUNG
WELDABLE	SCHWEISSBAR

DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16:2M)

Field	Content
Publication	JP52012611 A
Priority	JP88689

Application	JP1807197550-88689	
Applicant	KOBE SEIKOSH	
Inventor	TAKAHASHI, EIJI	
Title	LARGE DIAMETER STEEL WIRE WITH HIGH STRENGTH	
Info		
IPC	C21D0952	
Composition nr	1	Composite component -
Composition	[weight-%] C 0,65-0,9 * Si 0,5-2 * Mn 0-1 * Al + Nb + V + Zr + Ti + B 0-0,3 * Fe REST * N + S + P 0-0,3%	
Keywords (english)	(german)	
PRODUCTION	HERSTELLUNG	
TENSILE-STRENGTH	ZUGFEST	
USE	VERWENDUNG	

36 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16.2H)

Field	Content	
Publication	DE2456530 A	
Priority	US424672	
Application	DT29111974P2456530	
Applicant	NIELS ENGEL	
Inventor	ENGEL, NIELS	
Title	UEBERHARTER MARTENSIT UND VERFAHREN ZU SEINER HERSTELLUNG	
Info		
IPC	18Q00C21D00100000	
Composition nr	1	Composite component -
Composition	[weight-%] C + N + B + BE 0,3-1,8 * Si + Mn 0-2,22 * P + S 0-0,33 * Mg + La 0-0,1 * Y + Zr + Hf + Th + Ta + Cu + In + Be + Te + PO 0-0,11 * He + Ne + Ar + Li + Na + K + Rb + Cs + Ca + Sr + Ba + Ra + Ag + Cd + Hg + Tl + Pb + Bi 0-1,11 * Fe REST	
Keywords (english)	(german)	
BEARING	LAGER	
CASE-HARDENING	EINSATZH	
CORROSION-RESISTING	KORROSIONSBEST	
CUTTING-EDGE-HOLDING-PR	SCHNEIDHALTIG	
FATIGUE-RESISTING	SCHWINGFEST	
FINE-GRAINED	FEINKÖRNING	
HARD	HART	
HEAT-TREATMENT	WÄRMEBEHANDLUNG	
MARTENSITE	MARTENSIT	
PRODUCTION	HERSTELLUNG	
SPRINGS	FEDERN	
TOOL	WERKZEUG	
TOUGH	ZÄH	
WEAR TEAR	VERSCHLEISS	

37 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16.2H)

Field	Content
Publication	FRB177214 C
Priority	FR7210326
Application	FR240319727210326
Applicant	UGINE ACIERS
Inventor	GUEUSSIER, ANDRE/ TRICOT, ROLAND/ LLUANSI, MICHEL

Title	ACIERS A TRES HAUTE RESISTANCE A PROPRIETES D'ENDURANCE AMELIOREES	
Info		
IPC	40B00C22C039054H0	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,7-1,2 * SI 0,2-1,5 * MN 0,2-2 * CR + MO + V + W + Ti + ZR + NB + TA + B 0,25-3 * N 0,015-0,030 * P + S 0-0,33 * FE REST	
Keywords	(english)	(german)
	BEARING	LAGER
	CREEP-RESIST/STABILITY	STANDFEST
	FATIGUE-RESISTING	SCHWINGFEST
	HARD	HART
	HEAT-TREATMENT	WÄRMEBEHANDLUNG
	TENSILE-STRENGTH	ZUGFEST
	WEARI TEAR	VERSCHLEISS

38 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (10:2H)

Field	Content	
Publication	DE2313987 A	04.10.1973
Priority	FR210326	24.03.1972
Application	DT21031973P2313987	
Applicant	UGINE ACIERS	
Inventor	GUEUSSIER,ANDRE/ TRICOT,ROLAND/ LLUANSI,MICHEL	
Title	VERWENDUNG EINES STAHLS MIT HOHEM STICKSTOFFGEHALT	
Info		
IPC	40B00C22C03901410	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,7-1,2 * SI 0,2-1,5 * MN 0,2-2 * CR + MO + V + W + Ti + ZR + NB + TA + B 0,25-3 * N 0,015-0,03 * P + S 0-0,33 * FE REST	
Keywords	(english)	(german)
	BEARING	LAGER
	ELASTIC	ELASTISCH
	HARD	HART
	HEAT-TREATMENT	WÄRMEBEHANDLUNG
	TENSILE-STRENGTH	ZUGFEST

39 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (10:2H)

Field	Content	
Publication	GB1306260 C	07.02.1973
Priority	SE10370	23.07.1969
Application	GB160197034580/70	
Applicant	SANDVIK AB	
Inventor		
Title	IMPROVEMENTS IN OR RELATING TO ALLOY STEEL RAZOR BLADES	
Info	MO+ W+ NB+ TA+ Ti+ V 0-2% Ni+ CO+ CU+ ZR+ B 0-1	
IPC	40B00C22C03801800	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,8-1,4 * CR 0,5-2 * SI 0,7-2 * MN 0-1 * MO 0-1 * W 0-1 * NB 0-1 * TA 0-1 * Ti 0-1 * V 0-1 * NI 0-1 * CO 0-1 * CU 0-1 * ZR 0-1 * B 0-1 * P + S + N 0-0,33 * FE REST	
Keywords	(english)	(german)

CUTTING-EDGE-HOLDING-PR	SCHNEIDHALTIG
HEAT-TREATMENT	WÄRMEBEHANDLUNG
SURFACE	OBERFLÄCHE
TOOL	WERKZEUG

SG - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (16.2H)

Field	Content
Publication	DE2039438 A
Priority	DE2039438
Application	DT07081970P2039438
Applicant	TOHOKU SPECIAL STEEL WORKS LTD
Inventor	MATSUMOTO JIRO/ OHARA, SHOSHIRO/ TERASHIMA, TAKAHIKO
Title	HOCHLEISTUNGSWERKZEUGSTAHL
Info	
IPC	40B00C22C03905200
Composition nr.	1
Composition	[weight-%] C 0.4-1.5 * Si : 1-3 * Mn 0.1-1 * V 0.5-5 * Cr 1-4.5 * Mo 0.5-2.5 * Fe REST * B 0-0.01 * Ti + Zr + Nb + Ta + Ca 0-2 * P 0-0.024 * S + Se 0-0.03 * N 0-0.1
Keywords (english)	(german)
HARD	HART
PLASTIC	PLASTISCH
TENSILE-STRENGTH	ZUGFEST
TOOL	WERKZEUG
WEAR/TEAR	VERSCHLEISS

4.1 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (16.2H)

Field	Content
Publication	DE2112944 A
Priority	GB130966
Application	DT17031971P2112944
Applicant	THE BIRMINGHAM SMALL ARMS CO LTD
Inventor	RIDOUT, PHILIP/MATTY, MICHAEL
Title	PULVERMISCHUNG ZUR HERSTELLUNG VON STAHLGEGENSTAENDEN NACH BEKANNTEN PULVERMETALLURGISCHEM VERFAHREN
Info	AL* B* Cr* Cu* Mg* Nb* Ta* P* Si* Ti* W* V* Zr* Se* Pb<5
IPC	40B00C22C03903600
Composition nr.	1
Composition	[weight-%] Ni 1-4.9 * Mn 0.1-2 * Mo 0.1-5 * C 0.1-1 * Al 0.1-1 * B 0-0.3 + Cr 0.5 + Cu 0-5 + Mg 0-1 + Nb + Ta 0-4 + P 0-0.3 + Si 0-1 + Ti 0-2 + W 0-4 + V 0-0.3 + Zr 0-0.6 + Se 0-0.8 + Pb 0-0.5 * N + S 0-0.33 * Fe REST
Keywords (english)	(german)
PLASTIC	PLASTISCH
SINTERED-PRODUCT	SINTERW
TENSILE-STRENGTH	ZUGFEST
USE	VERWENDUNG

4.2 - DEUTSCHES PATENT- UND MARKENAMT DPMA - 16.3.2010 (16.2H)

Field	Content
Publication	DE1032296 B
Priority	GB
Application	DT21081953H17483

Applicant	HADFIELD LTD	
Inventor	RAFT, JOHN/MIDDLEHAM, THOMAS/WARD, JOHN	
Title	VERWENDUNG EINER AUSTENITISCHEN STAHLLEGIERUNG ALS WERKSTOFF FUER NICHTMAGNETISCHE GEGENSTAende HOHER FESTIGKEIT UND STRECKGRENZE	
Info	MO+ W+ Ti+ NB+ TA+ AL+ ZR+ BE<10% MN+ CR+ Ni<28% Si+ V>1,5	
IPC	18D00C22C00202000	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,3-0,9% SI 0,2-2% MN 0,5-20% CR 0,8% NI 0,12% V 0,5-4% P + S 0,2-2,2% MO 0,5% W 0,5% Ti 0,5% NB + TA 0,5% AL 0,2% ZR 0,2% BE 0,2% CO 0,5% CU 0,6% N 0,025% B 0,0,5% FE REST	
Keywords (english)	(german)	
CORROSION-RESISTING	KORROSIONSBEST	
HEAT-TREATMENT	WARMBEHANDLUNG	
HIGH-TEMPER-STRENGTH	WARMFEST	
NONMAGNETIC	UNMAGNETISCH	
PLASTIC	PLASTISCH	
Precipitation-Hardening	AUSScheidungsh	
Tensile-Strength	Zugfest	
USE	VERWENDUNG	
WEAR/TEAR	VERSCHLEISS	

4.3 DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16:2H)

Field	Content	
Publication	AT193914 C	10 12 1957
Priority		
Application	OE02061954	
Applicant	OESTERREICHISCH-ALPINE MONTAGEGESELLSCHAFT	
Inventor	MITSCHE, RCLAND/LEGAT, ALOIS	
Title	STAHL FUER BEWEHRUNGSZWECKE IM BAUWESEN	
Info		
IPC	18B00C21C02400100	
Composition nr.	1	Composite component -
Composition	[weight-%] C 0,1-1,2% SI + MN 0,1-2% CR 0-1,5% MO 0-1% AL 0-0,5% Ti 0-0,5% B 0-0,1% N 0-0,1% TA 0-0,2% ZR 0-0,3% NB 0-0,2% P 0-0,2% V 0-0,5% CU 0-1,5% FE REST	
Keywords (english)	(german)	
CREEP-RESIST/STABILITY	STANDFEST	
TENSILE-STRENGTH	ZUGFEST	
USE	VERWENDUNG	

4.4 DEUTSCHES PATENT- UND MARKENAMT DPMA - 18.3.2010 (16:2H)

Field	Content	
Publication	FR1087022 C	18 02 1955
Priority	FR 08 09 1953	
Application	FRB8091953	
Applicant	THE ARMOO INTERNATIONAL CORP	
Inventor		
Title	PROCEDE DE FABRICATION D'ALLIAGES ET PRODUITS EN RESULTANT	
Info		
IPC	40B00C22C0039020H0	
Composition nr.	1	Composite component -

Composition	[weight-%] C 0-1,5 * B 0,0005-0,0015 * CR (0)-35 * NI 0-50 * MN 0-20 * SI 0-5 * CO 0-50 * W + MO 0-10 * CU 0-10 * AL 0-5 * NB + TA + V + ZR + Ti 0-5 * P + S 0-0,5 * FE REST
Keywords	(english) (german)
CORROSION-RESISTING	KORROSIONSBEST
HEAT-TREATMENT	WÄRMEBEHANDLUNG
PLASTIC	PLASTISCH
PRODUCTION	HERSTELLUNG
SURFACE	OBERFLÄCHE
TURBINE	TURBINE
USE	VERWENDUNG

DEUTSCHES PATENT UND MARKENAMT DPMA - 19.3.2010 (16:2H)

Field	Content
Publication	FR1047436 C 14.12.1953
Priority	FR 02.01.1952
Application	FR02011952
Applicant	REGIE NATIONALE DES USINES RENAULT
Inventor	
Title	PROCEDE D'ELABORATION D'ACIERS AU CUIVRE-BORE
Info	
IPC	40B00C22C03500000
Composition nr	1 Composite component -
Composition	[weight-%] B 0,0002-0,0060 * CU 0,15-2 * Ti 0-0,07 * AL 0-0,02 * CA 0-0,62 * C + MN + SI 0-2,22 * P + S + N 0-0,33 * NI 0-1,6 * CR 0-1 * ZR + V + MG 0-0,33 * FE REST
Keywords	(english) (german)
CASE-HARDENING	EINSATZH
HEAT-TREATMENT	WÄRMEBEHANDLUNG
PRODUCTION	HERSTELLUNG
SURFACE	OBERFLÄCHE
TOUGH	ZAH